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U. S. DEPARTMENT OF AGRICULTURE,

BUREAU OF ENTOMOLOGY—BULLETIN No. 81.

L. O. HOWARD, Entomologist and Chief of Bureau.

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A LIST OF WORKS ON NORTH AMERICAN ENTOMOLOGY.

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Compiled for the use of students and other workers as well as for those about to begin the collection and study of insects.

BY

NATHAN BANKS,
Assistant.

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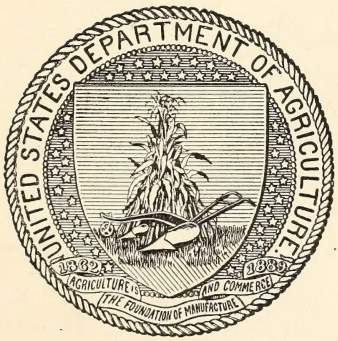

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LETTER OF TRANSMITTAL.

United States Department of Agriculture,
Bureau of Entomology,
Washington, D. C., October 19, 1909.

Sir: I have the honor to transmit herewith a manuscript, by Mr. Nathan Banks, an assistant in this Bureau, entitled "A List of Works on North American Entomology." Similar lists, by Mr. E. A. Schwarz and Mr. Nathan Banks, were published in 1888 and 1900 as Bulletin No. 19, old series, and Bulletin No. 24, new series, of this office. Since 1900 the number of publications on North American insects has greatly increased, so that Bulletin No. 24 is now very much out of date and there is a great demand among economic entomologists, students, and other workers for a new bulletin covering the same subject. I therefore recommend the publication of this manuscript as Bulletin No. 81, of the Bureau of Entomology.

Respectfully,

L. O. Howard,
Entomologist and Chief of Bureau.

Hon. James Wilson,
Secretary of Agriculture.

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A LIST OF WORKS ON NORTH AMERICAN ENTOMOLOGY.

INTRODUCTION.

This list of works on North American insects is a revision of Bulletin No. 24 (new series), together with the additional titles that have been published since the issuance of that bulletin (1900). These additions are very extensive in some of the orders; indeed, in many families the recent literature has completely replaced all that before treated of the family in this country. The appearance of Wytsman's Genera Insectorum has added many papers of the greatest importance to the systematist. The widening importance of entomology has shown that almost any group hitherto of little economic value may suddenly become of great importance. Therefore it is useful to keep posted on all systematic work.

This list is intended to aid the student in such systematic study as is now a necessary qualification for economic work.

A new chapter has been added, namely, titles of value in medical entomology.

COMPREHENSIVE WORKS MOST USEFUL FOR THE STUDY OF NORTH AMERICAN INSECTS.

Say, Thomas.—Complete writings on the entomology of North America; edited by J. L. Le Conte. 2 vols. New York, 1859.

Principally descriptions of new species; contains a glossary to entomological terms. Now out of print.

Comstock, J. H.—A manual for the study of insects. Ithaca, N. Y., 1895.

Packard, A. S.—Guide to the study of insects. New York. Many editions. (First edition, Salem, 1869.)

——— A text-book of entomology. New York, 1898.

Anatomy and morphology.

Kellogg, V. L.—American insects. New York, 1905, pp. 674, many figures. Second revised edition, American Nature Series, 1908.

Folsom, J. W.—Entomology, with special reference to its biological and economic aspects. Philadelphia, 1906, pp. 485, many figures.

Howard, L. O.—The insect book. New York, 1901, pp. 428, pls. 48.

Banks, N.—Directions for collecting and preserving insects. <Bul. 67, U. S. Nat. Mus., 1909, pp. 135.

Hyatt, A., and Arms, J. M.—Insecta. No. VIII, Guides for science teaching. Boston, 1890.

Burmeister, H. C. C.—Handbuch der Entomologie. Berlin, 1832–1855. 5 vols. I. Allgemeine Entomologie.

The first volume treats of general entomology; Vol. II, part 1, of the Hemiptera; part 2, of Orthoptera; part 3, of Neuroptera; the remaining volumes of Coleoptera.

The first volume has been translated by W. E. Shuckard, under the title, Manual of Entomology. 1 vol. London, 1836.

Westwood, J. O.—An introduction to the modern classification of insects, founded on the natural habits and corresponding organization of the different families. 2 vols. London, 1839–1840.

Kirby, W., and Spence, W.—An introduction to entomology. 4 vols. London, 1815–1826. Several later editions, some in two volumes.

Sharp, D.—The Cambridge natural history; insects. 2 vols.: Vol. 1, 1895; vol. 2, 1899. London.

Kolbe, H. J.—Einführung in die Kenntnis der Insekten. Berlin, 1893.

Künckel d'Herculais, J.—Les Insectes, les Myriopodes, et les Arachnides. Edition française, A. E. Brehm, Merveilles de la Nature. 2 vols. Paris, 1883.

The Standard Natural History.—Edited by J. S. Kingsley. Boston, 1884–1885.

Volume II contains the insects, treated by the following authors: Hymenoptera, J. H. Comstock and L. O. Howard; Coleoptera, Geo. Dimmock; Lepidoptera, H. Edwards and C. H. Fernald; Diptera, S. W. Williston; Orthoptera, C. V. Riley; Hemiptera, P. R. Uhler; Neuroptera, A. S. Packard; Arachnida, J. H. Emerton.

Biologia Centrali-Americana.—Edited by T. Ducane Godman and Osbert Salvin. London, issued in parts. [Unfinished.]

The different subjects, as far as published, may be secured by purchase from foreign book dealers.

Cowan, F.—Curious facts in the history of insects. Philadelphia, 1865, pp. 396.

Comstock, J. H.—Insect Life. New York, 1897, pp. 349. New Edition, 1901.

Isaac, J.—Entomology in outline. <2nd Bien. Rep. Comm. Hort. Cal., f. 1905–1906, pp. 37–154, 1907.

Packard, A. S.—Entomology for beginners. New York, 1892.

HUNTER, S. J.—Elementary studies in insect life. Topeka, Kans., 1902.

SMITH, J. B.—Explanation of terms used in entomology. Brooklyn Entomological Society, 1906.

HANDLIRSCH, A.—Die fossilen Insekten, und die Phylogenie der rezenten Formen. Leipzig, 1908, 8 parts, many plates.

BIBLIOGRAPHY.

HAGEN, H. A.—Bibliotheca entomologica. Die Litteratur über das ganze Gebiet der Entomologie bis zum Jahre 1862. Leipzig, 1862.

TASCHENBERG, O.—Bibliotheca Zoologica. II, 1889; III, 1890. Leipzig.

Dealing with the literature of entomology from 1861 to 1880; the first volume, under Carus and Engelmann, brought the subject down to 1861, duplicating Hagen's work.

ZOOLOGICAL RECORD.—Published each year by the Zoological Society of London.

BIBLIOGRAPHIA ZOOLOGICA.—Published in parts, in connection with the Zoologischer Anzeiger.

SCUDDER, S. H.—Nomenclator zoologicus. <Bul. 22, U. S. Nat. Mus., 1882.

Contains a universal index to the genera used in zoology down to 1880.

WATERHOUSE, C. O.—Index zoologicus. London, 1902, pp. 421.

Names of new genera from 1880 to 1900; thus a supplement to Scudder's work.

CONCILIUM BIBLIOGRAPHICUM, ZURICH, SWITZERLAND, issues references on cards. One can purchase the cards on any particular group very cheaply.

CURRENT LITERATURE is catalogued in several publications, notably Bulletin de la Société Entomologique de France, Zeitschrift für wissenschaftliche Insektenbiologie, Entomologische Litteraturblätter, and Zoologischer Anzeiger.

HENSHAW, S.—Bibliography of American economic entomology. Parts I–V. <U. S. Dept. Agr., 1890–1896.

Literature down to July 1, 1888.

BANKS, N.—Bibliography of American Economic Entomology. Parts VI, VII, VIII. <U. S. Dept. Agr., 1898, 1901, 1905.

Literature from June 30, 1888, to January 1, 1905.

BIBLIOGRAPHY OF INSECTS OF THE WEST INDIES.—Report of Committee, Proceedings British Association for the Advancement of Science, 1888, pp. 1–28.

FAUNA ARCTICA.—Edited by Römer and Schaudinn, Jena. Entomological parts are: Collembola, by Schæffer, 1900; Lepidoptera, by Pagenstecher, 1901; Tenthredinidæ, by Kiaer, 1902; Hymenoptera, by Friese, 1902; Hemiptera, by Breddin, 1902; Acarida, by Tragardh, 1905; Araneæ, Opiliones, Chernetes, by Strand, 1906; Myriopoda, by Attems, 1906.

SYSTEMATIC WORKS ON SINGLE ORDERS OF INSECTS.

HYMENOPTERA.

I.—CATALOGUES.

CRESSON, E. T.—Catalogue of species and bibliography. Part 2 of Synopsis of the Hymenoptera of America, north of Mexico. Synopsis and catalogue. <Trans. Amer. Ent. Soc., Supplementary volume, 1887. Philadelphia, 1887.

DALLA TORRE, C. G. DE.—Catalogus Hymenopterorum. 10 vols. Leipzig, 1893–1900.

I, Tenthredinidæ; II, Cynipidæ; III, Ichneumonidæ, etc.; IV, Braconidæ; V, Chalcididæ and Proctotrupidæ; VI, Chrysididæ; VII, Formicidæ; VIII, Fossores; IX, Vespidæ; X, Apidæ. Each volume can be purchased separately.

II. GENERAL WORKS ON CLASSIFICATION.

CRESSON, E. T.—Synopsis of the families and genera of the Hymenoptera, north of Mexico, together with a catalogue of the described species and bibliography. <Trans. Amer. Ent. Soc., supplementary volume, Part I, 1887.

The second part contains the Catalogue of Species and Bibliography.

LEPELETIER DE SAINT FARGEAU, COMPTE AMÉDÉE.—Histoire naturelle des insectes, Hymenoptères. 4 vols., Paris, 1836–1846, pls. 48. Fourth vol. by A. Brullé.

FOX, W. J.—A proposed classification of the fossorial Hymenoptera of North America. <Proc. Acad. Nat. Sci. Phila., 1894, pp. 292–307.

ASHMEAD, W. H.—Classification of the horntails and sawflies, or the suborder Phytophaga. <Can. Ent., 1898, pp. 142–148, 177–183, 205–213, 226–232, 249–257, 281–287.

——— Classification of the bees, or the superfamily Apoidea. <Trans. Amer. Ent. Soc., XXVI, pp. 49–100, 1899.

——— Superfamilies in the Hymenoptera and generic synopses of the families Thynnidæ, Myrmosidæ, and Mutillidæ. <Journ. N. Y. Ent. Soc., 1899, pp. 45–60.

ASHMEAD, W. H.—A classification of the entomophilous wasps, or the superfamily Sphegoidea. <Can. Ent., 1899, pp. 145–155, 161–174, 212–225, 238–251, 291–300, 322–330, 345–357.

——— Classification of the ichneumon flies, or the superfamily Ichneumonoidea. <Proc. U. S. Nat. Mus., XXIII, pp. 1–200, 1900.

——— Classification of the fossorial, predaceous, and parasitic wasps, or the superfamily Vespoidea. <Can. Ent., 1900, pp. 145–155, 185–188, 295–296; 1902, pp. 79–88, 131–137, 163–166, 203–210, 218–231, 268–273, 287–291; 1903, pp. 3–8, 39–44, 95–107, 155–158, 199–205, 303–310, 323–332; 1904, pp. 5–9.

——— Classification of the pointed-tailed wasps, or the superfamily Proctotrypoidea. <Journ. N. Y. Ent. Soc., 1902, pp. 240–247; 1903, pp. 28–35, 86–99.

——— Classification of the gall-wasps and the parasitic Cynipoids, or the superfamily Cynipoidea. <Psyche, 1903, pp. 7–13, 59–73, 140–155, 210–216.

——— Classification of the chalcid flies, or the superfamily Chalcidoidea. <Mem. Carnegie Mus., I, No. 4, pp. 531, pls. 9, 1904.

III.—MONOGRAPHS AND SYNOPSES.

TENTHREDINIDÆ AND UROCERIDÆ.

NORTON, E.—Catalogue of the described Tenthredinidæ and Uroceridæ of North America. <Trans. Amer. Ent. Soc., I, pp. 31–84, 193–280, 1867; II, pp. 211–242, 321–367, 1868–1869.

Gives synoptic tables of genera and species of both families; the Uroceridæ are treated in Vol. II, pp. 349–367.

CRESSON, E. T.—Catalogue of the Tenthredinidæ and Uroceridæ of North America. <Trans. Amer. Ent. Soc., VIII, pp. 53–68, 1880.

A synonymical reference list of the species; the Uroceridæ are treated on pp. 66–67.

CAMERON, P.—Monograph of the British Phytophagous Hymenoptera. 2 vols. London, 1882–1885.

Contains an arrangement of the subfamilies and genera of Tenthredinidæ, which has been reproduced by Cresson in his general work of classification.

KONOW, W. F.—Fam. Tenthredinidæ. <Gen. Ins., Fasc. 29, pp. 176, pls. 3, 1905.

——— Fam. Siricidæ. <Gen. Ins., Fasc. 28, pp. 14, pl. 1, 1905.

——— Fam. Lydidæ. <Gen. Ins., Fasc. 27, pp. 27, pl. 1, 1905.

MacGillivray, A. D.—A study of the wings of the Tenthredinoidea, a superfamily of Hymenoptera. <Proc. U. S. Nat. Mus., xxix, pp. 569–654, pls. 24, 1906.

Table to the subfamilies.

Marlatt, C. L.—Revision of the Nematinæ of North America, a subfamily of leaf-feeding Hymenoptera of the family Tenthredinidæ. <Tech. ser. 3, Div. Ent., U. S. Dept. Agr., pp. 135, 1896.

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——— The American species of Priophorus. <Can. Ent., 1906, pp. 305–307.

——— New species of Tenthredo. <Journ. N. Y. Ent. Soc., 1897, pp. 103–108.

Table of part of genus.

——— The American species of Perineura. <Can. Ent., 1895, pp. 7–8.

——— A new genus and some new species of Tenthredinidæ. <Can. Ent., 1909, pp. 345–362.

Table of Caliroa.

Harrington, W. H.—Canadian Hymenoptera, No. 4. <Can. Ent., 1894, pp. 193–196.

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Rohwer, S. A.—The sawfly genus Cryptocampus in Boreal North America. <Journ. N. Y. Ent. Soc., 1909, pp. 7–25.

Dyar, H. G.—The larvæ of the North American sawflies. <Can. Ent., 1895, pp. 337–344.

——— On the larvæ of certain Nematinæ and Blennocampinæ, with description of new species. <Journ. N. Y. Ent. Soc., 1898, pp. 121–138.

Tables to Periclista, Isodyctium, the larvæ of Blennocampinæ, and Ashmead's table to genera of Blennocampinæ.

Bradley, C. J.—The North American Oryssidæ. <Trans. Amer. Ent. Soc., xxvii, pp. 317–318, 1901.

CYNIPIDÆ.

Osten Sacken, C. R.—On the Cynipidæ of the North American oaks and their galls. <Proc. Ent. Soc. Phila., i, pp. 47–72, 1861–1863; additions and corrections, l. c., pp. 241–259.

Osten Sacken, C. R.—Contributions to the natural history of the Cynipidæ of the United States. <Proc. Ent. Soc. Phila., II, pp. 33–49, 1863–1864; IV, pp. 331–380, 1865; Trans. Amer. Ent. Soc., III, pp. 54–64, 1870–1871.

Continuation of the foregoing paper, both containing valuable contributions to the classification of genera and species.

Walsh, B. D.—On dimorphism in the Hymenopterous genus Cynips; with an appendix, containing hints for a new classification of Cynipidæ, including descriptions of several new species inhabiting the oak galls of Illinois. <Proc. Ent. Soc. Phila., II, pp. 443–500, 1863–1864.

Mayr, G.—Die Genera der gallenbewohnenden Cynipiden. <20ter Jahresbericht der Communal-Oberrealschule im I. Bezirk. Wein, 1881.

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Ashmead, W. H.—On the cynipidous galls of Florida, with descriptions of new species and synopses of the described species of North America. <Trans. Amer. Ent. Soc., XIV, pp. 125–158, 1887.

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——— The North American species of Diastrophus and their galls. <Bul. Amer. Mus. Nat. Hist., XXVI, pp. 135–145, 1909.

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Treats of Eumayria, Belonocnema, Solenozopheria, and Compsodryœnus.

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——— The Evaniidæ, ensign-flies; an archaic family of Hymenoptera. <Trans. Amer. Ent. Soc., XXXIV, pp. 101–194, pls. 11, 1908.

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FOERSTER, A.—Synopsis der Familien und Gattungen der Ichneumonen. <Verh. naturh. Ver. preuss. Rheinl. u. Westphal., XXV, pp. 135–221, 1868. Aachen.

BERTHOUMIEU, V.—Subfam. Ichneumoninæ. <Gen. Ins., Fasc. 18, pp. 87, pls. 2, 1904.

SZEPLIGETI, V.—Fam. Ichneumonidæ. Gruppe Ophioninæ. <Gen. Ins., Fasc. 34, pp. 71, pls. 2, 1905.

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NORTON, E.—Catalogue of our species of Ophion, Anomalon, Paniscus, and Campoplex. <Proc. Ent. Soc. Phila., I, pp. 357–368, 1863.

Synoptic arrangement of the North American genera and species of the subfamily Ophioninæ.

CRESSON, E. T.—Descriptions of North American Hymenoptera in the collection of the Entomological Society of Philadelphia. <Proc. Ent. Soc. Phila., III, pp. 131–196, 1864.

Consists chiefly of a synopsis of the North American species of the genus Ichneumon.

——— A list of the Ichneumonidæ of North America, with descriptions of new species. <Trans. Amer. Ent. Soc., I, pp. 289–312, 1867; II, pp. 89–114, 1868–1869.

——— Descriptions of new species belonging to the subfamily Pimplariæ found in America, north of Mexico. <Trans. Amer. Ent. Soc., III, pp. 143–172, 1870–1871.

Tabulates the genera Pimpla, Polysphincta, Glypta, Arenetra, Lampronota, Xylonomus, and Odontomerus, with a list of all species.

Cresson, E. T.—Notes on the species belonging to the subfamily Ichneumonides found in America, north of Mexico. <Trans. Amer. Ent. Soc., vi, pp. 129–212, 1877.

A synopsis of the genera and species of the subfamily Ichneumoninæ.

Davis, G. C.—A review of the Ichneumonid subfamily Tryphoninæ. <Trans. Amer. Ent. Soc., xxiv, pp. 193–348, 1897.

——— A monograph of the tribe Bassini. <Trans. Amer. Ent. Soc., xxii, pp. 17–30, 1895.

——— Two new species of Clistopyga. <Ent. News, 1895, pp. 198–199.

Contains table of species.

Ashmead, W. H.—Descriptions of new Ichneumonidæ in the collection of the U. S. National Museum. <Proc. U. S. Nat. Mus., xii, pp. 387–451, 1900.

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Felt, E. P.—Synopsis of certain genera of the Ophionini. <19th Rep. N. Y. State Ent., Bul. 76, N. Y. State Mus., pp. 97–125, pls. 2, 1904.

Bradley, C. J.—The genus Platylabus Wesmael. <Can. Ent., 1903, pp. 275–283.

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Davis, G. C.—A study of the genus Meniscus. <Can. Ent., 1894, pp. 321–324.

Harrington, W. H.—Two new species of Canadian Pimplinæ. <Can. Ent., 1891, pp. 132–134.

Tables to Xorides and Xylonomus.

——— Canadian Hymenoptera No. 2. <Can. Ent., 1893, pp. 29–32.

Synopsis of Coleocentrus and Ecthrus.

Hertzog, P. H.—A new Euceros. <Ent. News, 1909, pp. 245–246.

Schmiedeknecht, O.—Opuscula Ichneumonologia. Blankenburg im Thüringen.

Very useful in classification; 22 fascicles now issued.

STEPHANIDÆ.

Kieffer, J. J.—Fam. Stephanidæ. <Gen. Ins., Fasc. 77, pp. 10, pl. 1., 1909.

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Riley, C. V.—On North American Microgasters, with descriptions of new species. <Trans. St. Louis Acad. Sci., iv, No. 2, 1881.

Marshall, T. A.—Monograph of the British Braconidæ. Part I. <Trans. Ent. Soc. London, 1885, pp. 1–280, pls. i–iv.

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Ashmead, W. H.—Synopsis of the Hormiinæ of North America. <Trans. Amer. Ent. Soc., xx, pp. 39–44, 1893.

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Tables of species of Spathius and Cænophanes.

——— Descriptions of new Braconidæ in the collection of the U. S. National Museum. <Proc. U. S. Nat. Mus., x, pp. 611–671, 1888.

Tables of Aphidius and Lysiphlebus.

Brues, C. T.—North American species of Aphæreta. <12th Rep. Ent. Minn., 1908, p. 196.

TRIGONALIDÆ.

Schulz, A.—Fam. Trigonalidæ. <Gen. Ins., Fasc. 61, pp. 24, pls. 3, 1907.

See also paper by Melander and Brues under Chrysididæ.

CHALCIDIDÆ.

Foerster, A.—Synoptische Uebersicht der Familien und Gattungen in den beiden Gruppen der Chalcidiæ Spin. und Proctotrupii Latr. <Jahresber. d. höheren Bürgerschule in Aachen, 1856.

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Revision of Aphycus.

——— On the aphis-feeding species of Aphelinus. <Ent. News, 1908, pp. 365–367.

——— On some American phytophagic Eurytominæ. <Tech. Ser. 2, Div. Ent., U. S. Dept. Agr., 1896.

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The state reports of Lintner and Forbes may be obtained from the secretaries of the respective state agricultural societies at Albany, N. Y., and Springfield, Ill., while the reports of the entomologists of the state experiment stations can be obtained from the directors of the respective stations. The older reports of the state entomologist of Missouri and the state entomologists of Illinois (Walsh, Le Baron, and Thomas) are all out of print and can only be obtained by purchase from second-hand dealers. The same may be said of the well-known and often quoted reports of Fitch, which were published with the old volumes of the Transactions of the New York State Agricultural Society.

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